

# **nF4 Ultra-DAGF nF4-DAGF**

**System Board User's Manual  
Carte Mère Manuel Pour Utilisateur  
System-Platine Benutzerhandbuch  
Manual del Usuario de Placas Base  
Руководство Пользователя**

935-CK8041-100  
84900503

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**Caution**

To avoid damage to the system, use the correct AC input voltage range.  
To reduce the risk of electric shock, unplug the power cord before removing the system chassis cover for installation or servicing. After installation or servicing, cover the system chassis before plugging the power cord.  
Battery: 1. Danger of explosion if battery incorrectly replaced. 2. Replace only with the same or equivalent type recommend by the manufacturer. 3. Dispose of used batteries according to the battery manufacturer's instructions.

**Notice**

The system board and accessories in the package may not come similar to the information stated in this manual. This may differ in accordance to the sales region or models in which it was sold. For more information about the standard package in your region, please contact your dealer or sales representative.

**FCC and DOC Statement on Class B**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

**Notice:**

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables must be used in order to comply with the emission limits.

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The user's manual in the provided CD contains detailed information about the system board. If, in some cases, some information doesn't match those shown in this manual, this manual should always be regarded as the most updated version.

Le manuel d'utilisateur dans le CD muni contient renseignement détaillé au sujet de carte de système. Si, en quelque cas, quelque renseignement n'appareille de ce que dit dans ce manuel, ce manuel doit toujours être considéré comme la plus nouvelle version.

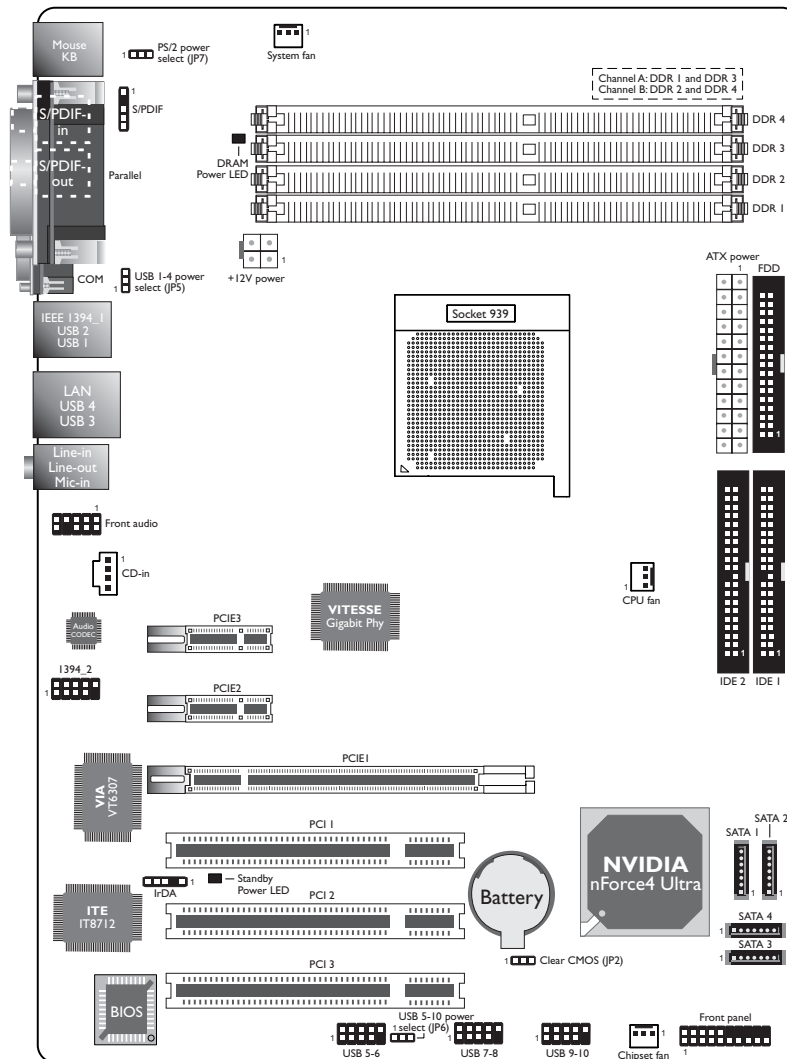
Das Benutzerhandbuch in der angebotenen CD enthält detaillierte Informationen über die Hauptplatine. Wenn in manchen Fällen manche Informationen nicht denjenigen Informationen dargestellt in diesem Handbuch entsprechen, soll dieses Handbuch als die meist aktualisierte Ausgabe gelten.

El uso explicativo contiene información detalle sobre la sistema board en el CD preparativo. Si en algún caso, la información no es igual con el uso explicativo, necesita ver el uso explicativo, es que es más nuevo.

В руководстве пользователя на предоставляемом CD диске содержится подробная информация о материнской плате. Иногда напечатанное руководство может не совпадать руководством на CD, так как последнее наиболее часто обновляется и является самым свежим.

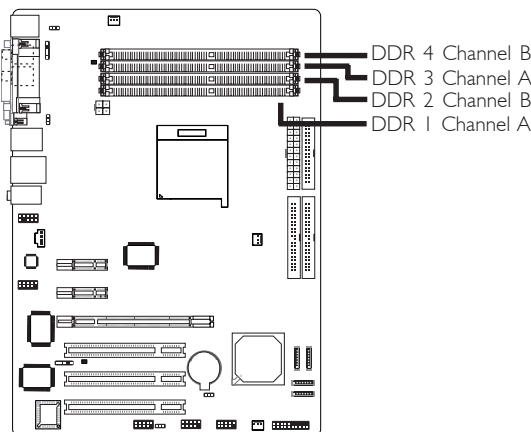
## Chapter 1 - Quick Setup Guide

### System Board Layout



The illustration shown above is the nF4 Ultra-DAGF system board which uses the NVIDIA nForce4 Ultra chip. nF4-DAGF uses the NVIDIA nForce4 chip.

## System Memory



Single Channel	<ul style="list-style-type: none"><li>• DIMMs are on the same channel.</li><li>• DIMMs in a channel can be identical or completely different. However, we highly recommend using identical DIMMs.</li><li>• Not all slots need to be populated.</li></ul>
Dual Channel	<ul style="list-style-type: none"><li>• DIMMs of the same memory configuration are on different channels.</li></ul>

## Memory Configurations

The table below shows the DIMM sockets that must be populated with DIMMs for single or dual channel interface. We strongly recommend that you strictly follow the memory configurations below. Installing DDR DIMMs other than the recommended configurations may cause system boot failure.

Dual Channel	DDR 1	DDR 2	-	-
Dual Channel	-	-	DDR 3	DDR 4
Dual Channel	DDR 1	DDR 2	DDR 3	DDR 4
Single Channel	DDR 1	-	-	-
Single Channel	-	-	DDR 3	-
Single Channel	DDR 1	-	DDR 3	-

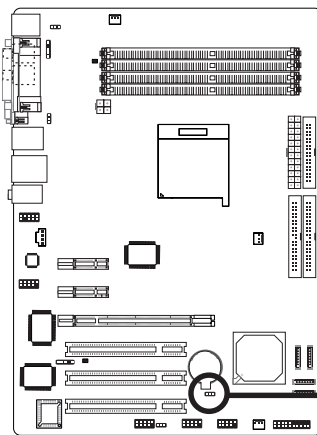
# 1

## Quick Setup Guide

### Quick Setup Guide

## Jumpers

### Clear CMOS Data

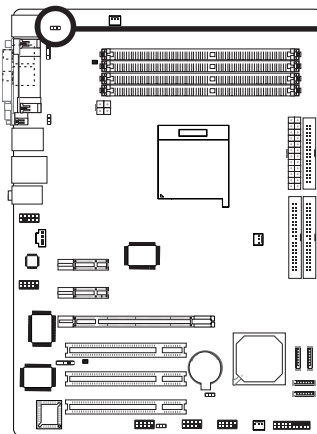


1-2 On: Normal  
(default)



2-3 On:  
Clear CMOS Data

### PS/2 Power Select



1-2 On: 5V  
(default)



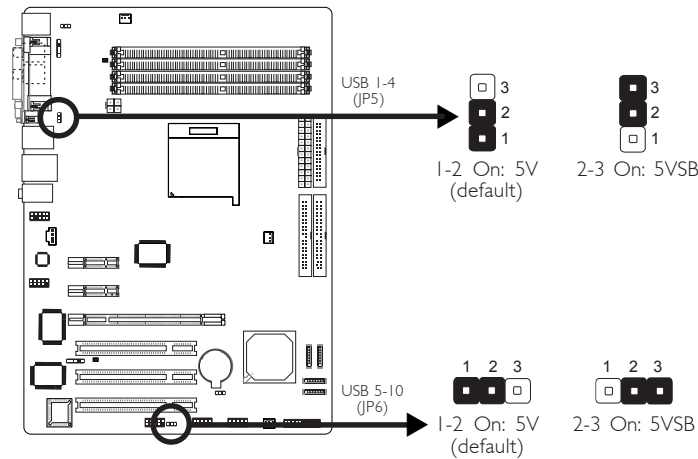
2-3 On: 5VSB



#### Important:

The 5VSB power source of your power supply must support  $\geq 720\text{mA}$ .

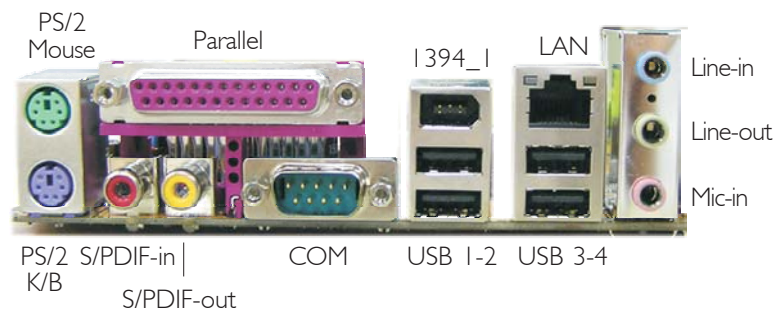
## USB Power Select



### Important:

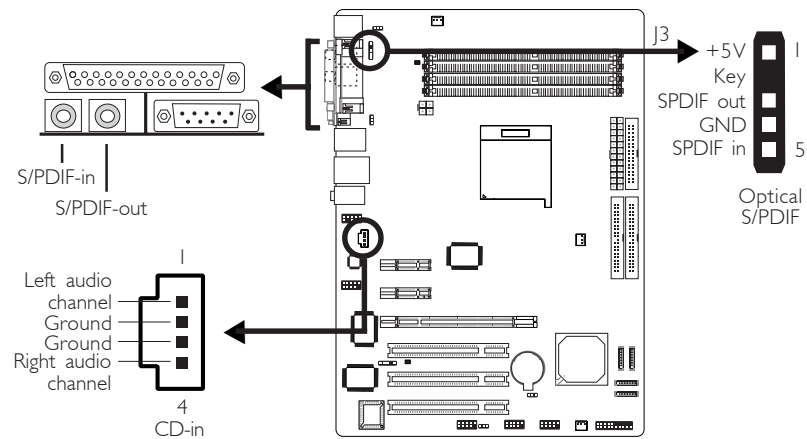
If you are using the Wake-On-USB Keyboard/Mouse function for 2 USB ports, the 5VSB power source of your power supply must support  $\geq 1.5A$ . For 3 or more USB ports, the 5VSB power source of your power supply must support  $\geq 2A$ .

## Rear Panel I/O Ports



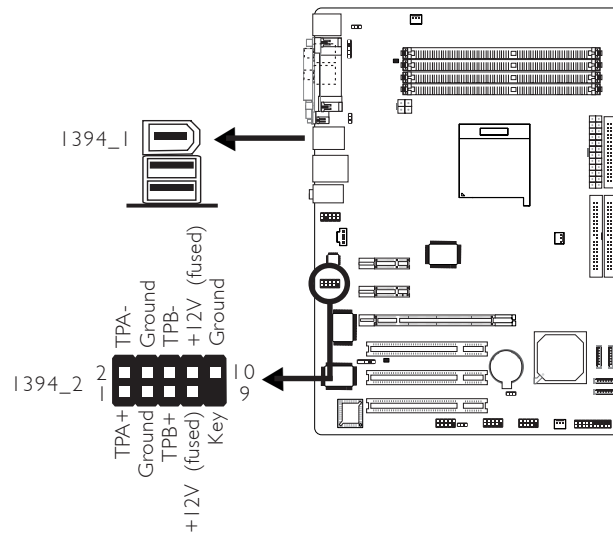
## I/O Connectors

## S/PDIF-in/out and CD-in Connectors

**Note:**

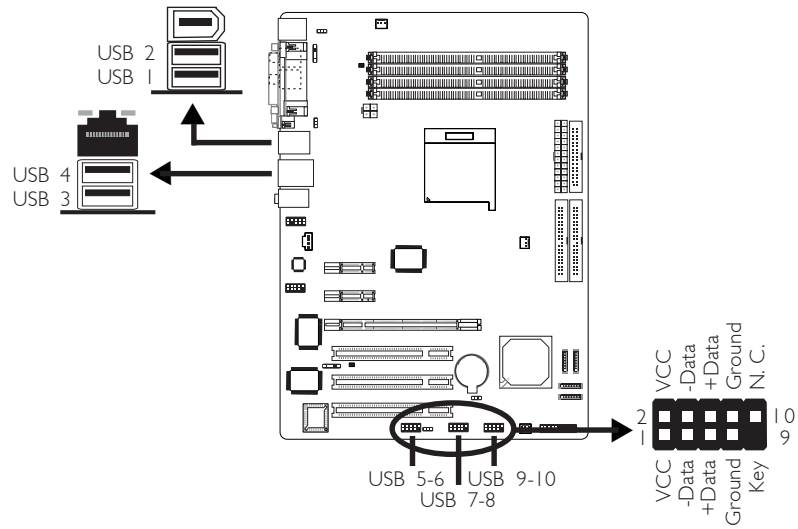
DO NOT use RCA S/PDIF and optical S/PDIF at the same time.

## IEEE 1394

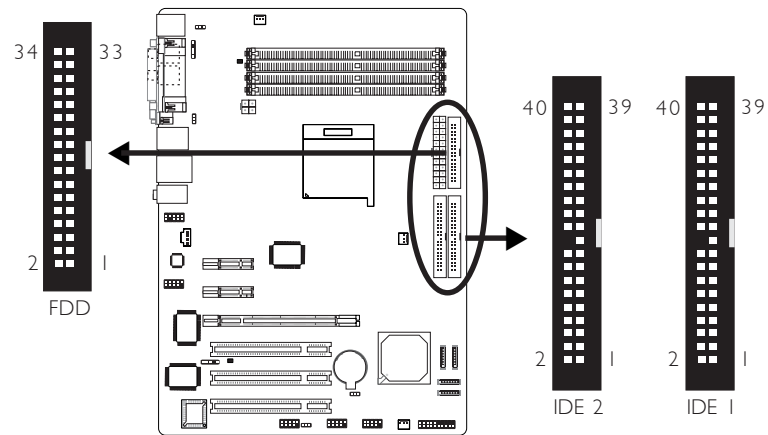




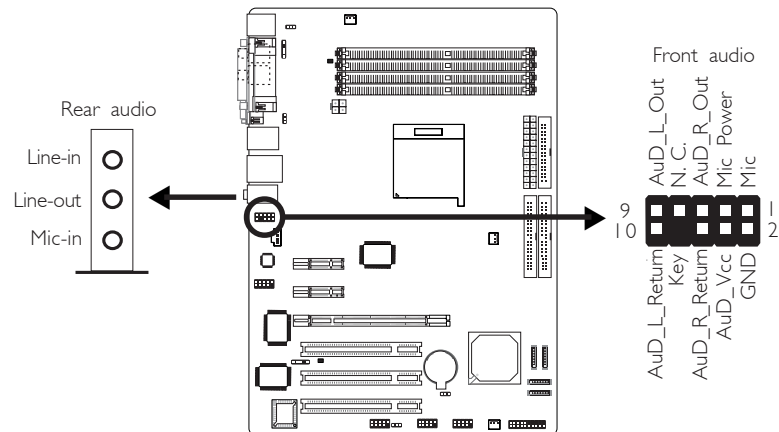
## Universal Serial Bus Ports



## FDD and IDE Connectors

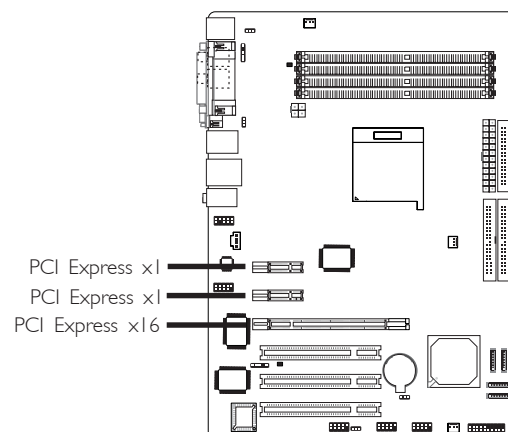


## Audio (Rear Audio and Front Audio)

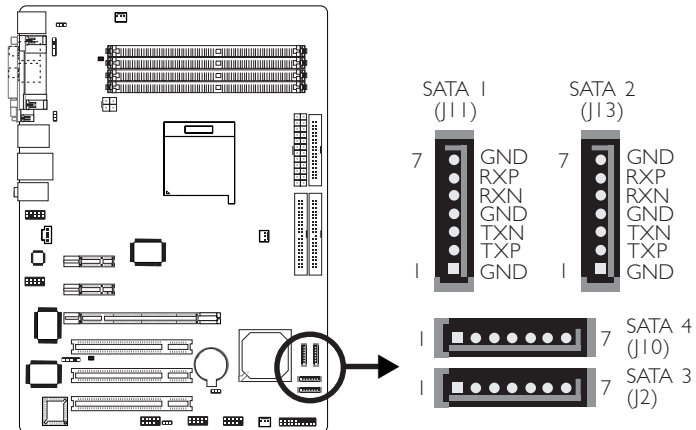


	2-channel	4-channel	6-channel
Light Blue	Line-in	Rear R/L	Rear R/L
Lime	Line-out	Front R/L	Front R/L
Pink	Mic-in	Mic-in	Center/Subwoofer

## PCI Express Slots

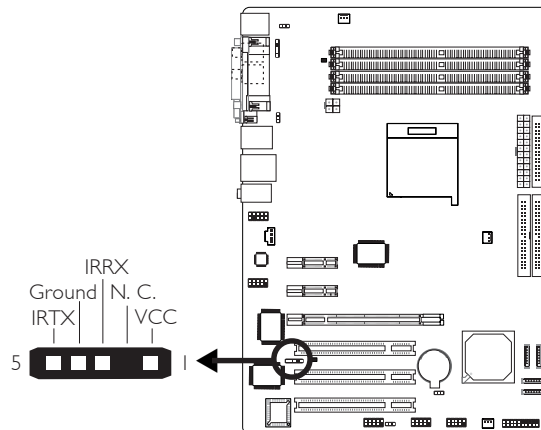


## Serial ATA Connectors

**Important:**

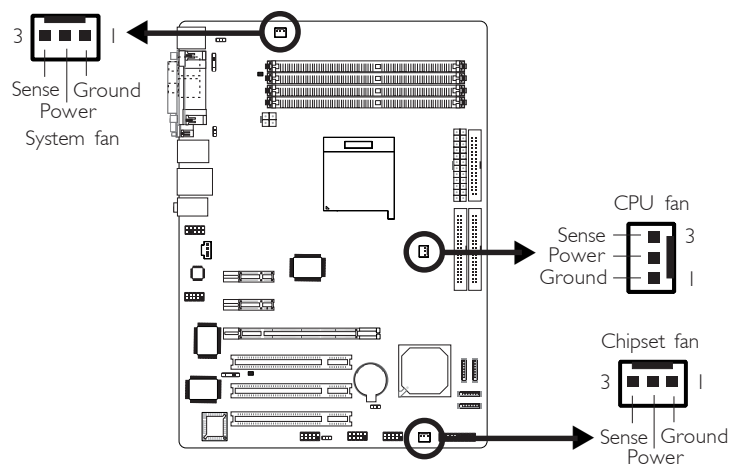
*Before creating RAID, make sure you have installed the Serial/Parallel ATA drives and connected the data cables otherwise you won't be able to enter the NVIDIA RAID BIOS utility.*

## IrDA Connector

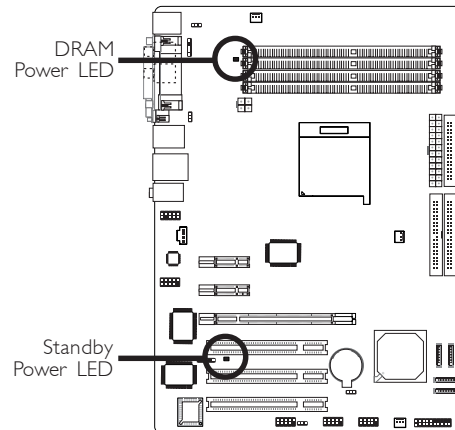
**Note:**

The sequence of the pin functions on some IR cable may be reversed from the pin function defined on the system board. Make sure to connect the cable connector to the IR connector according to their pin functions.

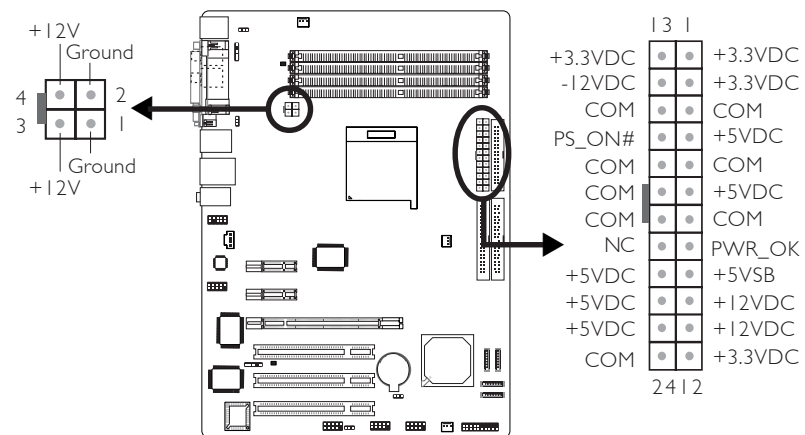
## Cooling Fan Connectors



## LEDs



## Power Connectors



### Important:

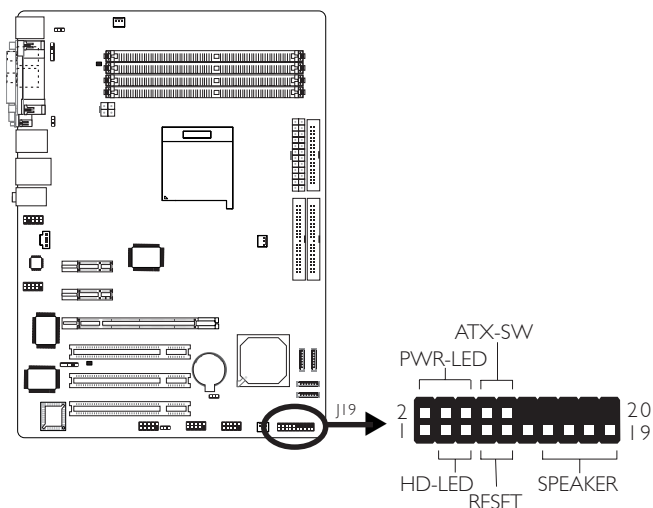
To ensure that adequate power is provided, we strongly recommend that you use a minimum of 400 Watt (or greater) power supply.

# 1

## Quick Setup Guide

### Quick Setup Guide

### Front Panel Connectors



	Pin	Pin Assignment
<b>HD-LED</b> (Primary/Secondary IDE LED)	3 5	HDD LED Power HDD
<b>Reserved</b>	14 16	N. C. N. C.
<b>ATX-SW</b> (ATX power switch)	8 10	PWRBT+ PWRBT-
<b>Reserved</b>	18 20	N. C. N. C.
<b>RESET</b> (Reset switch)	7 9	Ground H/W Reset
<b>SPEAKER</b> (Speaker connector)	13 15 17 19	Speaker Data N. C. Ground Speaker Power
<b>PWR-LED</b> (Power/Standby LED)	2 4 6	LED Power (+) LED Power (+) LED Power (-) or Standby Signal

## Chapter 2 - English

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### Features and Specifications

#### Processor

- AMD Athlon™ 64 FX / Athlon™ 64 / Sempron™
- 2000MT/s HyperTransport interface
- Socket 939

#### Chipset

- NVIDIA nForce4™ Ultra (nF4 Ultra-DAGF only)
- NVIDIA nForce4™ (nF4-DAGF only)

#### System Memory

- Four 184-pin DDR SDRAM DIMM sockets
- Supports dual channel (128-bit wide) memory interface
- Supports up to 4GB system memory
- Supports PC2100 (DDR266), PC2700 (DDR333) and PC3200 (DDR400) DDR SDRAM DIMM
- Supports x8/x16 ECC/non-ECC unbuffered DIMMs, up to 512Mb DDR devices

#### Expansion Slots

- 1 PCI Express x16 slot
- 2 PCI Express x1 slots
- 3 PCI slots

#### BIOS

- Award BIOS
- 4Mbit flash memory

#### Energy Efficient Design

- Supports ACPI specification and OS Directed Power Management
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
  - Wake-On-PS/2 Keyboard/Mouse
  - Wake-On-USB Keyboard/Mouse
  - Wake-On-LAN
  - Wake-On-Ring

- RTC timer to power-on the system
- AC power failure recovery

#### Hardware Monitor

- Monitors CPU/system temperature
- Monitors VCC3/12V/3.3V/5VSB/Vbat voltages
- Monitors the speed of the cooling fans
- CPU Overheat Protection function monitors CPU temperature during system boot-up

#### Onboard Audio Features

- 6-channel audio CODEC
- True stereo line level outputs
- S/PDIF-in/out interface

#### Onboard LAN Features

- Vitesse VSC8201 Gigabit Phy
- Fully compliant to IEEE 802.3 (10BASE-T), 802.3u (100BASE-TX) and 802.3ab (1000BASE-T) standards
- Integrated power management functions
- Supports IEEE 802.3u auto-negotiation
- Supports wire for management

#### IDE Interface with NVIDIA RAID

- Supports two IDE connectors that allow connecting up to four UltraDMA 133Mbps hard drives
- NVIDIA RAID allows RAID arrays spanning across Serial ATA and Parallel ATA
- RAID 0 and RAID 1

#### Serial ATA Interface with NVIDIA RAID

- Supports four Serial ATA ports
- SATA speed up to 3Gb/s (nF4 Ultra-DAGF only)  
SATA speed up to 1.5Gb/s (nF4-DAGF only)
- NVIDIA RAID allows RAID arrays spanning across Serial ATA and Parallel ATA
- RAID 0 and RAID 1

#### IEEE 1394 Interface

- VIA VT6307
- Supports two 100/200/400 Mb/sec ports



**Rear Panel I/O Ports**

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 2 S/PDIF RCA jacks (S/PDIF-in and S/PDIF-out)
- 1 parallel port
- 1 serial port
- 1 IEEE 1394 port
- 1 RJ45 LAN port
- 4 USB 2.0/1.1 ports
- Line-in, line-out and mic-in jacks

**I/O Connectors**

- 3 connectors for 6 additional external USB 2.0/1.1 ports
- 1 connector for 1 external IEEE 1394 port
- 1 front audio connector for external line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF connector for optical cable connection
- 1 IrDA connector
- 4 Serial ATA connectors
- 2 IDE connectors
- 1 floppy connector
- 1 24-pin ATX power connector
- 1 4-pin ATX 12V power connector
- 1 front panel connector
- 3 fan connectors

**PCB**

- ATX form factor
- 22cm (8.66") x 30.5cm (12")

## Package Checklist

The system board package contains the following items:

- ☒ The system board
- ☒ A user's manual
- ☒ One IDE cable
- ☒ One floppy cable
- ☒ Two Serial ATA data cables
- ☒ One "nVRAID Driver" diskette
- ☒ One I/O shield
- ☒ One "Mainboard Utility" CD

If any of these items are missing or damaged, please contact your dealer or sales representative for assistance.

## Chapter 3 - Français

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### Caractéristiques et Spécifications

#### Processeur

- AMD Athlon™ 64 FX / Athlon™ 64 / Sempron™
- Interface HyperTransport 2000MT/s
- Socket 939

#### Chipset

- NVIDIA nForce4™ Ultra (nF4 Ultra-DAGF seulement)
- NVIDIA nForce4™ (nF4-DAGF seulement)

#### Mémoire Système

- 4 sockets DDR SDRAM DIMM 184 broches
- Supporte l'interface de mémoire deux canaux (128-bit)
- Supporte jusqu'à 4GB de mémoire
- Supporte DDR SDRAM DIMM PC2100 (DDR266), PC2700 (DDR333) et PC3200 (DDR400)
- Supporte exclusivement les modules DIMM ECC/non-ECC x8/x16, densité de RAM jusqu'à 512Mb, DIMM non-tamponnés

#### Logements d'Extension

- 1 slot PCI Express x16
- 2 slots PCI Express x1
- 3 slots PCI

#### BIOS

- Compatible avec Award BIOS
- Mémoire Flash 4Mbit

#### Design à Haut Rendement Énergétique

- ACPI STR (Suspend to RAM) fonction
- Réveil-Sur-PS/2 Clavier/Souris et Réveil-Sur-USB Clavier/Souris
- Eveil Sonnerie et Réveil Par Le Réseau
- Minuterie RTC pour allumer le système
- Récupération après Défaillance d'Alimentation CA

#### System Health Monitor Fonctions

- Gère l'alarme de température et de surchauffe de CPU/système
- Gère l'alarme de voltage et d'échec de VCC3/12V/3.3V/5VSB/Vbat

- Gère la vitesse de ventilateur du ventilateurs
- Protection du CPU - supporte la mise hors circuit automatique en cas de surchauffage du système

#### Caractéristiques Audio sur Carte

- 6-canaux audio CODEC
- Sorties de niveau de lignes stéréo vraies
- Interface entrée/sortie S/PDIF

#### Fonctionnalités Onboard LAN

- Vitesse VSC8201 Gigabit Phy
- Supporte IEEE 802.3 (10BASE-T), 802.3u (100BASE-TX) et 802.3ab (1000BASE-T)
- Fonctions de gestion d'alimentation intégrées
- Supporte l'auto négociation IEEE 802.3u
- Support câble pour la gestion

#### Interface IDE avec NVIDIA RAID

- Deux connecteurs IDE permettant de connecter jusqu'à quatre disques durs UltraDMA 133Mbps.
- NVIDIA RAID permet des ensembles RAID sur toute l'étendue du port de série ATA et du parallèle ATA
- RAID 0 et RAID 1

#### Interface Série ATA avec NVIDIA RAID

- Quatre ports de série ATA
- Vitesse SATA jusqu'à 3Gb/s (nF4 Ultra-DAGF seulement)
- Vitesse SATA jusqu'à 1.5Gb/s (nF4-DAGF seulement)
- NVIDIA RAID permet des ensembles RAID sur toute l'étendue du port de série ATA et du parallèle ATA
- RAID 0 et RAID 1

#### Interface IEEE 1394

- VIA VT6307
- Supporte 2 ports 100/200/400 Mb/séc

#### Le Panneau des Ports Entrée/Sortie en Arrière

- 1 port souris PS/2 et 1 port clavier PS/2
- 2 S/PDIF RCA prises (S/PDIF-in et S/PDIF-out)
- 1 port parallèle DB-25
- 1 port de DB-9 série
- 1 port IEEE 1394

- 1 port RJ45 LAN
- 4 ports USB 2.0/1.1
- Line-in, line-out et mic-in prises audio

#### Connecteurs Entrée/Sortie

- 3 connecteurs pour 6 ports USB 2.0/1.1 supplémentaires
- 1 connecteur pour 1 IEEE 1394
- 1 connecteur audio frontal pour les jacks de sortie externe et d'entrée micro
- 1 connecteur CD-in audio internes
- 1 S/PDIF l'assemblage pour l'adjonction de câble optique
- 1 connecteur IR, 2 connecteurs IDE et 1 connecteur de FDD
- 4 connecteurs Serial ATA
- 1 connecteur d'alimentation 24-pin ATX
- 1 connecteur d'alimentation 4-pin 12V ATX
- 1 connecteur devant panneau
- 3 connecteurs de ventilateurs

#### PCB

- ATX
- 22cm (8.66") x 30.5cm (12")

## Liste de Vérification de l'Emballage

L'emballage de la carte système contient les éléments suivants:

- ☒ 1 carte système
- ☒ 1 manuel utilisateur
- ☒ 1 câble IDE
- ☒ 1 câble floppy
- ☒ 2 câble SATA
- ☒ 1 disquette "nVRAID Driver"
- ☒ 1 shield I/O
- ☒ 1 CD "Mainboard Utility"

Si l'un de ces éléments n'était pas dans l'emballage ou s'il était endommagé, veuillez contacter votre revendeur ou votre représentant.

## Chapter 4 - Deutsch

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### Leistungsmerkmale und Technische Daten

#### Prozessor

- AMD Athlon™ 64 FX / Athlon™ 64 / Sempron™
- Interface HyperTransport 2000MT/s
- Socket 939

#### Chipset

- NVIDIA nForce4™ Ultra (Nur für nF4 Ultra-DAGF)
- NVIDIA nForce4™ (Nur für nF4-DAGF)

#### Systemspeicher

- 4 DDR-SDRAM-DIMM- Fassungen mit 184poligem Anschlußstecker
- Unterhält 128-bit – Speicher mit den zwei Kanälen
- Unterhält bis zum 4GB-Systemspeicher
- Unterstützt DDR SDRAM DIMM PC2100 (DDR266), PC2700 (DDR333) und PC3200 (DDR400)
- Unterhält nur ECC/non-ECC x8/x16 DIMMs, ohne Dämpfer, bis zum 512Mb DRAM

#### Erweiterungssteckfassungen

- 1 PCI Express x16-Einbauplätzen
- 2 PCI Express x1-Einbauplätzen
- 3 PCI-Einbauplätzen

#### BIOS

- Kompatibilität mit Award BIOS
- Flash-Speicher (4Mbit)

#### Energomisches Design

- ACPI STR (Suspend to RAM) funktion
- Wecken bei Betätigung der PS/2 Tastatur/Maus
- Wecken bei USB-Tastatur/Maus
- Wecken bei Klingeln
- Wecken des Systems durch das Netzwerk
- RTC-Taktgeber zum Einschalten des Systems
- Wiederherstellung der Wechselstromversorgung nach einem Ausfall

**System Health Monitor Funktionen**

- Überwachung der Temperatur des CPU/Systems sowie Warnsignal bei Überhitzung
- Überwachung der Spannungen des VCC3/12V/3.3V/5VSB/Vbat
- Überwachung der Geschwindigkeit des Ventilators
- Prozessor-Shutz - Die Ausschaltung bei der Überhitzung – die automatische Ausschaltung des Computers bei der Überhitzung

**Audiomerkmale auf Platine**

- 6-Kanal-Audio-CODEC
- Naturgetreue Stereo-Leitungspegel-Ausgabe
- S/PDIF-In/Aus-Schnittstelle

**Merkmale des LAN auf Platine**

- Vitesse VSC8201 Gigabit Phy
- Unterstützt IEEE 802.3 (10BASE-T), 802.3u (100BASE-TX) und 802.3ab (1000BASE-T)
- Integrierte Power-Management-Funktionen
- Unterstützung der IEEE-802.3u-Auto-Negotiation
- Unterstützung des Leiters für das Management

**IDE-Schnittstelle mit NVIDIA RAID**

- Zwei IDE-Schnittstellen, an denen bis zu vier UltraDMA 133Mbps Festplatten angeschlossen werden können.
- NVIDIA RAID ermöglicht, dass die RAID-Arrays sowohl serielle als auch parallele ATA-Schnittstellen umfassen.
- RAID 0 und RAID 1

**Serielle ATA-Schnittstelle mit NVIDIA RAID**

- 4 Serial ATA-Ports
- SATA bis zu 3Gb/s schnell (Nur für nF4 Ultra-DAGF)
- SATA bis zu 1.5Gb/s schnell (Nur für nF4-DAGF)
- NVIDIA RAID ermöglicht, dass die RAID-Arrays sowohl serielle als auch parallele ATA-Schnittstellen umfassen
- RAID 0 und RAID 1

**IEEE 1394 Schnittstelle**

- VIA VT6307
- Unterstützt 2 Ports 100/200/400 Mbps

**Ein-/Ausgabe-Porte an der Rückwand**

- 1 Mini-DIN-6-Anschluß für eine PS/2-Maus
- 1 Mini-DIN-6-Anschluß für eine PS/2-Tastatur
- 2 S/PDIF RCA-Anschlüsse (S/PDIF-in und S/PDIF-out)
- 1 DB-25-Parallelanschluß
- 1 serieller DB-9-Anschlüsse
- 1 IEEE 1394-Anschlüsse
- 1 RJ45 LAN-Anschlüsse
- 4 USB 2.0/1.1-Anschlüsse
- Line-in, line-out und mic-in Audio-Anschlußbuchsen

**Ein-/Ausgabe-Steckverbinder**

- 3 Anschlußfassung für 6 zusätzliche externe USB 2.0/1.1-Anschlüsse
- 1 Anschluß für eine externe IEEE 1394 Schnittstelle
- 1 Front-Audioanschluss für externe Mikrofon-Ein- und -Ausgänge
- 1 CD-in interne Audioanschlüsse
- 1 S/PDIF Anschluß für die Verbindung des optischen Kabel
- 1 Anschluß für die IR-Schnittstelle
- 4 Serial ATA-Anschlüsse
- 2 IDE-Anschlüsse
- 1 Floppy-Anschlüsse
- 1 24-polige Anschlußstecker für das ATX-Netzgerät
- 1 4-polige 12V Anschlußstecker für das ATX-Netzgerät
- 1 Vorderseite Füllung Anschlüsse
- 3-ventilator-Anschlüsse

**Die Druckplatte**

- ATX
- 22cm (8.66") x 30.5cm (12")



## Verpackungsliste

In der Verpackung der Systemplatine sind folgende Artikel enthalten:

- ☒ 1 Systemplatine
- ☒ 1 Benutzerhandbuch
- ☒ 1 IDE-Kabel
- ☒ 1 Floppy-Kabel
- ☒ 2 SATA-Kabel
- ☒ 1 Diskette "nVRAID Driver"
- ☒ 1 I/O-Schutzlatte
- ☒ 1 CD mit "Mainboard Utility"

Fehlt einer dieser Artikel oder weist einer dieser Artikel Beschädigungen auf, wenden Sie sich an Ihren Händler oder Vertreter.

## Chapter 5 - Español

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### Características y Especificaciones

#### Procesador

- AMD Athlon™ 64 FX / Athlon™ 64 / Sempron™
- Interface de HyperTransport 2000MT/s
- Socket 939

#### Chipset

- NVIDIA nForce4™ Ultra (nF4 Ultra-DAGF sólo)
- NVIDIA nForce4™ (nF4-DAGF sólo)

#### Memoria de Sistema

- 4 zocalos 184-pin DDR SDRAM DIMM
- Soporta memoria de dos canales (128-bit)
- Soporta hasta 4 GB de memoria sistémica
- Soporta PC2100 (DDR266), PC2700 (DDR333) y PC3200 (DDR400)
- Soporta sólo ECC/non-ECC x8/x16 DIMM, unbuffered, apoyo hasta 512 Mb DRAM

#### Ranuras de Expansión

- 1 slot PCI Express x16
- 2 slots PCI Express x1
- 3 slots PCI

#### BIOS

- Award BIOS
- Memoria Instante (4Mbitios)

#### Diseño Energía Eficiente

- ACPI STR (Suspend to RAM) función
- PS/2 Teclado/Ratón de Wake-On
- USB Teclado/Ratón de Wake-On
- Wake-On-Ring
- Wake-On-LAN
- Temporizador de RTC para encender el sistema
- Recuperación de Fracaso de Energía AC

**Funciones de Monitor de Salud del Sistema**

- Monitores de los CPU/sistema temperaturas y alarma acalorada.
- Monitores de voltajes de VCC3/12V/3.3V/5VSB/Vbat
- Vigila la velocidad del abanico
- Protección del procesador - Desconexión en caso de recalentamiento –el ordenador se desconecta automáticamente en caso de recalentamiento

**Características de Audio En Tablero**

- Audio CODEC de 6-canal
- Auténtico salidas de nivel de línea estéreo
- Interfáz de S/PDIF-in/out

**Características de LAN Interno**

- Vitesse VSC8201 Gigabit Phy
- Soporta IEEE 802.3 (10BASE-T), 802.3u (100BASE-TX) y 802.3ab (1000BASE-T)
- Funciones de administración de energía integrado
- Soporta auto negociación de IEEE 802.3u
- Soporta alambre para la administración

**Interfaz IDE con NVIDIA RAID**

- Soporta dos conectores IDE que permiten que llegue a 4 UltraDMA 133Mbps para el disco duro
- NVIDIA RAID permite RAID órdenes atravesando Serial ATA y Parallel ATA
- RAID 0 y RAID 1

**Interfaz en Serie ATA con NVIDIA RAID**

- 4 ports de Serial ATA
- SATA se acelera a 3Gb/s (nF4 Ultra-DAGF sólo)
- SATA se acelera a 1.5Gb/s (nF4-DAGF sólo)
- NVIDIA RAID permite RAID órdenes atravesando Serial ATA y Parallel ATA
- RAID 0 y RAID 1

**Interfaz IEEE 1394**

- VIA VT6307
- Soporta 2 ports 100/200/400 Má/sec

**Panel de reverso de conectores de entrada - Salida**

- 1 puerto de ratón PS/2 mini-DIN-6
- 1 puerto de teclado mini-DIN-6 PS/2
- 2 enchufes de S/PDIF RCA (S/PDIF-in y S/PDIF-out)
- 1 puerto paralelo de DB-25 y 1 puerto de serie DB-9
- 1 puerto de IEEE 1394 y 1 puerto de RJ45 LAN
- 4 puertos de USB 2.0/1.1
- Line-in, line-out y mic-in enchufes de audio

**I/O Conectores**

- 3 conector para 6 puertos de USB 2.0/1.1 externo adicional
- 1 conector para un puerto de IEEE 1394
- 1 conector de sonido delantera por línea externa y micrófono interno
- 1 conector de CD-in audio interno
- 1 S/PDIF mortaja para conexión de cable óptico
- 1 conector de IR, 2 conector de IDE y 1 conector de FDD
- 4 conectores de Serial ATA
- 1 conector 24-pin de fuente de alimentación de ATX
- 1 conector 4-pin 12V de fuente de alimentación de ATX
- 1 conector de panel delante
- 3 conectores de abanicos

**La Placa Imprenta**

- ATX
- 22cm (8.66") x 30.5cm (12")

**Lista de Chequeo del Paquete**

El paquete del tablero de sistema contiene los siguientes artículos:

- ☒ 1 tablero de sistema
- ☒ 1 manual de usuario
- ☒ 1 cable de IDE
- ☒ 1 cable de FDD
- ☒ 2 cable SATA
- ☒ 1 disquette flojo "NVRAID Driver"
- ☒ 1 chapa protectora I/O
- ☒ 1 CD de "Mainboard Utility"

Si cualquiera de estos artículos están perdidos o dañados, favor de ponerse en contacto con su tratante o representantes de venta para la asistencia.

## Глава 6 - Русский язык

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### Характеристики и свойства

#### Процессор

- AMD Athlon™ 64 FX / Athlon™ 64 / Sempron™
- Интерфейс системной шины 2000MT/s
- Socket 939

#### Чипсет

- NVIDIA nForce4™ Ultra (только nF4 Ultra-DAGF)
- NVIDIA nForce4™ (только nF4-DAGF)

#### Оперативная Память

- 4 184-pin DDR SDRAM DIMM
- Поддерживает двухканальный (128-битного) интерфейс
- Поддерживает до 4ГБ системной памяти
- Поддерживает PC2100 (DDR266), PC2700 (DDR333) и PC3200 (DDR400) DDR SDRAM DIMM
- Поддерживает только ECC/non-ECC x8/x16 DIMM, небуфф, Поддержка до 512Мб DRAM

#### Слоты

- 1 PCI Express x16 слотов
- 2 PCI Express x1 слотов
- 3 PCI слотов

#### BIOS

- Award BIOS
- 4Mbit Flash Память

#### Энергоминый Дизайн

- ACPI STR (Suspend to RAM)
- Активизация На Движение Мыши
- Активизация На Нажатие Кнопки USB Клавиатуры
- Активизация На Входящий Звонок
- Активизация На Сетевое Событие
- RTC Таймер для Включения Системы
- Скачки Напряжения

**Функции Мониторинга Состояния Системы**

- Мониторинг температуры процессора/системы
- Мониторинг напряжений VCC3/12V/3.3V/5VSB/Vbat
- Мониторинг скорости вращения вентилятора
- Защита процессора - Выключение при перегреве – автоматическое выключение компьютера при перегреве

**Встроенный Звук**

- 6-и CODEC
- Настоящий линейный стерео выход
- интерфейса S/PDIF-in и S/PDIF-out

**Встроенные сетевые функции**

- Vitesse VSC8201 Gigabit Phy
- Поддержка IEEE 802.3 (10BASE-T), 802.3u (100BASE-TX) и 802.3ab (1000BASE-T)
- Встроенные функции управления питанием
- Поддерживает IEEE 802.3u auto-negotiation
- Работа через шнур управления

**Интерфейс IDE с NVIDIA RAID**

- Поддерживает жесткие диски до UltraDMA 133Mbps
- NVIDIA RAID позволяет создавать массивы RAID через Serial ATA и Parallel ATA
- RAID 0 и RAID 1

**Интерфейс Serial ATA с NVIDIA RAID**

- Поддерживает 4 порта SATA
- Скорость SATA до 3 ГБ/с (только nF4 Ultra-DAGF)
- Скорость SATA до 1.5 ГБ/с (только nF4-DAGF)
- NVIDIA RAID позволяет создавать массивы RAID через Serial ATA и Parallel ATA
- RAID 0 и RAID 1

**Интерфейс IEEE 1394**

- VIA VT6307
- Поддерживает 2 порта 100/200/400 Мб/сек

### Порты Ввода/Вывода (I/O) задней панели

- 1 мини-DIN-6 PS/2 порт для мыши
- 1 мини-DIN-6 PS/2 порт для клавиатуры
- 2 S/PDIF RCA звука (S/PDIF-in и S/PDIF-out)
- 1 DB-25 параллельный порт
- 1 внешнего DB-9 порта
- 1 IEEE 1394 порт
- 1 RJ45 LAN порт
- 4 USB 2.0/1.1 порта
- Line-in, line-out и mic-in гнезда для звука

### Разъемы Ввода/Вывода

- 3 разъем для 6-х дополнительных внешних USB 2.0/1.1 портов
- 1 разъем для внешнего IEEE 1394 порта
- 1 фронтальный аудио-разъем для внешнего линейного и микрофонного выходов
- 1 CD-in внутренних звуковых разъема
- 1 S/PDIF разъем для присоединения оптического кабеля
- 1 разъем для интерфейса IR
- 4 Serial ATA разъема
- 2 IDE разъема
- 1 разъем FDD
- 1 24-штырьковых разъемов питания ATX
- 1 4-штырьковых 12V разъемов питания ATX
- 1 Фронт панель разъем
- 3 Разъемы для вентилятора

### Печатная плата

- ATX
- 22cm (8.66") x 30.5cm (12")

## Комплектация

Комплектация поставки материнской платы:

- ☒ Материнская плата
- ☒ Руководство пользователя
- ☒ 1 кабель IDE
- ☒ 1 кабель FDD
- ☒ шлейф Serial ATA
- ☒ Одна дискета "NVRAID Driver"
- ☒ Одна защитная планка I/O
- ☒ Один CD с "Mainboard Utility"

Если в комплекте из этого чего-то не хватает или что-то испорчено, пожалуйста, свяжитесь со своим дилером или продавцом.